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Performance evaluation of packet data services over cellular voice networks

Young Yong Kim , San-qi Li

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In this paper we develop a Markov chain modeling framework for throughput/delay analysis of data services over cellular voice networks, using the dynamic channel stealing method. Effective approximation techniques are also proposed and verified for simplification of modeling analysis. Our study identifies the average voice call holding time as the dominant factor to affect data delay performance. Especially in heavy load conditions, namely when the number of free voice channels becomes mome ...
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Traffic model for third generation cellular mobile telecommunication systems

J. G. Markoulidakis , G. L. Lyberopoulos , M. E. Anagnostou

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Traffic analysis for third generation mobile telecommunication systems should take into account a variety of services (e.g., voice, data, video) and "environments" (private, public outdoor, public indoor) as well as the user mobility behavior. The analytical traffic model presented in this paper incorporates all the above mentioned features. The model utilizes a set of simplifying assumptions regarding the distribution of certain random time intervals (e.g., call duration and &l ...
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Deepak Ayyagari , Anthony Ephremides

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Some next-generation personal communication systems propose the use of satellite systems for extending geographical coverage of cellular service. We pursue the idea of using satellite capacity to offload congestion within the area serviced by the terrestrial network. An integrated satellite-cellular network configuration is considered. The performance of this system is evaluated by means of an analytical model for a one-dimensional (highway) cellular system overlaid with satellite footprint ...
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Izhak Rubin , Cheon Won Choi


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We consider connection-oriented wireless cellular networks. Such second generation systems are circuit-switched digital networks which employ dedicated radio channels for the transmission of signaling information. A forward signaling channel is a common signaling channel


assigned to carry the multiplexed stream of paging and channel-allocation packets from a base station to the mobile stations. Similarly, for ATM wireless networks, paging and virtual-circuit-allocation packets are multiplex ...


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This paper proposes a scheduling policy called latest preempted, earliest resumed (LPER) for personal communications services (PCS) systems that support voice services as well as the circuit mode data services. The policy gives priority to the voice services over the data services. The scheduling of voice requests is performed as if no data requests exist. Thus, if no idle channel is available when a voice request arrives, a data channel (if exists) is interrupted and the channel will be us ...
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 Inki Hong , Darko Kirovski , Gang Qu , Miodrag Potkonjak , Mani B. Srivastava
Proceedings of the 35th annual conference on Design automation conference May 1998


The growing class of portable systems, such as personal computing and communication devices, has resulted in a new set of system design requirements, mainly characterized by dominant importance of power minimization and design reuse. We develop the design methodology for the low power core-based real-time system-on-chip based on dynamically variable voltage hardware. The key challenge is to develop effective scheduling techniques that treat voltage as a variable to be determined, in additio ...
- 11** On the performance of packet-switched cellular networks for wireless data communications 77%

 Jean-Paul M. G. Linnartz
Wireless Networks February 1995
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Cellular frequency reuse is known to be an efficient method to allow many wireless telephone subscribers to share the same frequency band. However, for wireless data and multi-media communications optimum cell layouts differ essentially from typical solutions for telephone systems. We argue that wireless radio systems for bursty message traffic preferably use the entire bandwidth in each cell. Packet queuing delays are derived for a network with multipath fading channels, shadowing, path lo ...
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 Hang Liu , Hairuo Ma , Magda El Zarki , Sanjay Gupta
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In this paper, we investigate the issue of error control in wireless communication networks. We review the alternative error control schemes available for providing reliable end-to-end communication in wireless environments. Through case studies, the performance and tradeoffs of these schemes are shown. Based on the application environments and QoS requirements, the design issues of error control are discussed to achieve the best solution.
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 Flaminio Borgonovo , Michele Zorzi
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It is not an easy task in the UMTS environment to effectively design the transport and the management of traffic belonging to multimedia teleservices among those defined by ITURecommendations, due to the hard communication requirements which this kind of application can call for. In this paper the results of an overall research work, dealing with an effective management of "multimedia" and "multi-requirement" services in enhanced third-generation mobile radio systems ...
- 15** Near-optimality of distributed load-adaptive dynamic channel allocation strategies for cellular mobile networks 77%



Andrea Baiocchi , Fabrizio Sestini

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In this paper we focus on the so-called load-adaptive Dynamic Channel Allocation (DCA) strategies for cellular mobile networks. Such strategies envisage the dynamic assignment of radio resources with the constraint that the outage probability (i.e. the probability that the carrier-to-interference power ratio be less than a given threshold) be less than a specified value, even in the worst foreseen propagation scenario. We identify a set of constraints to be satisfied in order that a DCA str ...

16 Rednet: a wireless ATM local area network using infrared links

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J. H. Condon , T. S. Duff , M. F. Juki , C. R. Kalmanek , B. N. Locanthi , J. P. Savicki , J. H. Venutolo

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17 Evaluation of location area planning scenarios in future mobile telecommunication systems

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J. G. Markoulidakis , G. L. Lyberopoulos , D. F. Tsirkas , E. D. Sykas

Wireless Networks February 1995

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In third generation mobile telecommunication systems, signalling requirements due to location updating and paging are expected to be remarkable, mainly because of the huge number of mobile subscribers. Location area planning is characterised by the trade-off between the number of location updates and the amount of paging signalling that the network has to deal with. Location area planning should be based on criteria which guarantee that signalling load will be kept under tolerable levels. V ...

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